

National Functional Guidelines Report # 3

Lab MITKEM (Mitkem Corporation) SDG Y4N71

Case 38274

Contract EPW05030

Region 9

DDTID 69891

SOW SOM01.2

Data Review Results

Modified by ESAT. Changes (*) are based on hardcopy Tier 1A forms review (of VOA_TRACE data only) and shown as ~~strikethrough~~ and **underline bold**. Reviewer: Santiago Lee (EPA Contract EPW06041, TDF 00405051, ICF International). Date: 05/11/09. DCN: 10724.

- * **Results above calibration range, denoted by an “E” flag, are qualified J (estimated) in Amended Table 1A. Results from the diluted analyses should be used.**

Data users should note that the diluted concentrations for some analytes in following samples are significantly lower than the undiluted concentrations.

<u>Sample</u>	<u>Analyte</u>	<u>Undiluted</u> <u>Conc., µg/L</u>	<u>Diluted</u> <u>Conc., µg/L</u>
Y4N71	Tetrachloroethene	210	120
Y4N72	Tetrachloroethene	260	120
Y4N76	1,1,1-Trichloroethane	9100	820
Y4N76	Trichloroethene	11000	2000U
Y4N76	Tetrachloroethene	79000	49000
Y4N77	Tetrachloroethene	130	42
Y4N81	Trichloroethene	120	47
Y4N81	Tetrachloroethene	1800	540
Y4N83	Tetrachloroethene	53	25

Samples Y4N85, Y4N86, and Y4N87 were received by the laboratory with a cooler temperature of 7°C which exceeds the 4+2°C sample preservation criterion. Since the cooler temperature is below 10°C, no adverse effect on data quality is expected.

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Data Review Results

Blanks

Blanks		VOA_TRACE
VTLB15		The following trace volatile samples have common contaminant analyte concentrations reported greater than or equal to 4x the CRQL. The associated method blank has common contaminant analytes concentration is less than or equal to 2x the concentration criteria. Detected and nondetected compounds are not qualified.
		Methylene chloride Y4N76
Blanks		VOA_TRACE
VTLB48		The following trace volatile samples have common contaminant analyte concentrations reported greater than or equal to 4x the CRQL. The associated storage blank has common contaminant analytes concentration is less than or equal to 2x the concentration criteria. Detected and nondetected compounds are not qualified.
		Methylene chloride Y4N76

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Data Review Results

Continuing Calibration Verification

Continuing Calibration Verification		VOA_TRACE
VTC8		The following trace volatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
		VBLKC5, VBLKD5, Y4N71DL, Y4N72DL, Y4N74, Y4N75, Y4N76DL, Y4N77DL, Y4N78, Y4N79, Y4N80, Y4N82, Y4N83DL, Y4N84, Y4N85, Y4N86, Y4N87, Y4N88, Y4N89, Y4N90, Y4N91
		Bromomethane VSTD005C5, VSTD005D5
		VBLKC5, VBLKD5, Y4N71DL, Y4N72DL, Y4N74, Y4N75, Y4N76DL, Y4N77DL, Y4N78, Y4N79, Y4N80, Y4N82, Y4N83DL, Y4N84, Y4N85, Y4N86, Y4N87, Y4N88, Y4N89, Y4N90, Y4N91

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Data Review Results

DMC/Surrogate

DMC/Surrogate	VOA_TRACE
VTDSS2	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	Y4N72, Y4N74, Y4N75, Y4N76, Y4N78, Y4N79, Y4N80, Y4N81, Y4N82, Y4N83, Y4N84, Y4N85, Y4N86, Y4N87, Y4N88, Y4N89, Y4N90, Y4N91
	Benzene-d6 Y4N76, Y4N81
	Benzene
	Chloroethane-d5 Y4N76
	Bromomethane, Carbon disulfide, Chloroethane, Chloromethane, Dichlorodifluoromethane
	Toluene-d8 Y4N76, Y4N81
	Ethylbenzene, Isopropylbenzene, Styrene, Tetrachloroethene, Toluene, Trichloroethene, m,p-Xylene, o-Xylene
*	1,1-Dichloroethene-d2 Y4N74, Y4N75, Y4N76, Y4N78, Y4N79, Y4N80, Y4N81, Y4N82, Y4N83, Y4N84, Y4N85, Y4N86, Y4N87, Y4N88, Y4N89, Y4N90, Y4N91, <u>Y4N71DL, Y4N72DL, Y4N76DL, Y4N77DL, Y4N83DL</u>
	1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene
	1,1,2,2-Tetrachloroethane-d2 Y4N81
	1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane
	2-Hexanone-d5 Y4N76
	2-Hexanone, 4-Methyl-2-pentanone
	Vinyl chloride-d3 Y4N72, Y4N76, Y4N83, Y4N89
	Vinyl chloride
	Chloroform-d Y4N76
	1,1-Dichloroethane, Bromochloromethane, Bromoform, Chloroform, Dibromochloromethane
	trans-1,3-Dichloropropene-d4 Y4N76, Y4N81
	1,1,2-Trichloroethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene
	1,2-Dichloropropane-d6 Y4N76, Y4N81
	1,2-Dichloropropane, Bromodichloromethane, Cyclohexane, Methylcyclohexane
DMC/Surrogate	VOA_TRACE
VTDSS3	The following trace volatile samples have one or more DMC/SMC recovery values is less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	Y4N76, Y4N77, Y4N78, Y4N82, Y4N89, Y4N90, Y4N91
	1,2-Dichloroethane-d4 Y4N77

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Data Review Results

DMC/Surrogate

	1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2-Dibromoethane, 1,2-Dichloroethane, Carbon tetrachloride, Methyl acetate, Methyl tert-butyl ether, Methylene chloride, Trichlorofluoromethane
*	Chloroethane-d5 Y4N77, Y4N78, <u>Y4N72DL</u>
	Bromomethane, Carbon disulfide, Chloroethane, Chloromethane, Dichlorodifluoromethane
*	1,2-Dichlorobenzene-d4 Y4N78, Y4N82, Y4N89, Y4N90, Y4N91, <u>Y4N76DL, Y4N83DL</u>
	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Chlorobenzene
	1,1,2,2-Tetrachloroethane-d2 Y4N76
	1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane

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Data Review Results

Detection Limit

Detection Limit	VOA_TRACE
VTDL1	The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	VBLK5V, VBLKC5, VBLKD5, VHBLKG5, Y4N71, Y4N72, Y4N76DL, Y4N79, Y4N83, Y4N83DL, Y4N84, Y4N85, Y4N87, Y4N90
	Tetrachloroethene Y4N87
	cis-1,2-Dichloroethene Y4N85
	trans-1,2-Dichloroethene Y4N72
	Methyl tert-butyl ether Y4N71, Y4N72
	Chloroform Y4N79, Y4N83DL, Y4N84
	1,1,1-Trichloroethane Y4N76DL
	Methylene chloride VBLK5V, VBLKC5, VBLKD5, VHBLKG5
	1,1-Dichloroethane Y4N71, Y4N72, Y4N83
	Trichloroethene Y4N90

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Lab MITKEM (Mitkem Corporation) **SDG** Y4N71

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Region 9

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SOW SOM01.2

Data Review Results

Initial Calibration

Initial Calibration		VOA_SIM
VTC15		The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
		VBLK5Y, VBLKJ5, VHBLKJ5, Y4N71, Y4N72, Y4N74, Y4N75, Y4N77, Y4N78, Y4N79, Y4N80, Y4N81, Y4N82, Y4N83, Y4N84, Y4N85, Y4N86, Y4N87, Y4N88, Y4N89, Y4N90, Y4N91
		1,2-Dibromo-3-chloropropane VSTD0.055X, VSTD0.05J5, VSTD0.15X, VSTD0.1J5, VSTD0.5J5, VSTD1.0J5, VSTD2.05X, VSTD2.0J5
		VBLKJ5, VHBLKJ5, Y4N82, Y4N83, Y4N84, Y4N85, Y4N86, Y4N87, Y4N88, Y4N89, Y4N90, Y4N91

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Data Review Results

Internal Standard

Internal Standard		VOA_TRACE
VTIS3	*	The following volatile samples have internal standard area counts that are outside the upper limit of primary criteria. Detected compounds are qualified J. Nondetected compounds are not qualified <u>qualified J (Region 9 modification)</u> .
		1,4-Difluorobenzene Y4N77
Internal Standard		VOA_TRACE
VTIS31		The following trace volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
*		Chlorobenzene-d5 Y4N76, Y4N81
*		1,4-Dichlorobenzene-d4 Y4N76
*		<u>The following trace volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Detected compounds are qualified J. Nondetected compounds are qualified J (area counts >25%; Region 9 modification).</u>
*		<u>Chlorobenzene-d5 Y4N81</u>
*		<u>1,4-Dichlorobenzene-d4 Y4N76</u>

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Data Review Results

TIC

TIC	VOA_TRACE
VTTIC1	A library search indicates a match at or above 85% for a TIC compound in the trace volatile sample. Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	354-23-4 Y4N83
TIC	VOA_TRACE
VTTIC2	A library search indicates a match below 85% for a TIC compound in the trace volatile sample. Detected compounds are qualified J. Nondetected compounds are not qualified.
	Y4N71, Y4N72, Y4N76
	Unknown-01 Y4N72, Y4N76
	Unknown-02 Y4N71, Y4N76
	Unknown-03 Y4N76
	Unknown-04 Y4N76
	Unknown-05 Y4N76

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	16			17			19			20			21			22		
Sample ID :	Y4N71			Y4N72			Y4N74			Y4N75			Y4N76			Y4N77		
Collection Date :	3/5/2009			3/5/2009			3/5/2009			3/5/2009			3/5/2009			3/5/2009		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com															
Dichlorodifluoromethane	0.50U	U		0.50U	UJ													
Chloromethane	0.50U	U		0.50U	UJ													
Vinyl chloride	0.50U	U		0.50U	UJ													
Bromomethane	0.50U	U		0.50U	U		0.50U	UJ		0.50U	UJ		0.50U	U		0.50U	UJ	
Chloroethane	0.50U	U		0.50U	UJ													
Trichlorofluoromethane	63E	J		74E	J		0.50U	U		0.50U	U		3.3			8.0	J	
1,1-Dichloroethene	120E	J		140E	J		0.50U	U		0.50U	U		230E	J		22E	J	
1,1,2-Trichloro-1,2,2-trifluoroethane	130E	J		150E	J		0.50U	U		0.50U	U		18			22E	J	
Acetone	5.0U	U		5.0U	UJ													
Carbon disulfide	0.50U	U		0.50U	UJ													
Methyl acetate	0.50U	U		0.50U	UJ													
Methylene chloride	0.50U	U		16B			0.50U	UJ										
trans-1,2-Dichloroethene	0.50U	U		0.21J	J		0.50U	U		0.50U	U		4.4	J		0.50U	UJ	
Methyl tert-butyl ether	0.28J	J		0.32J	J		0.50U	U		0.50U	U		0.50U	U		0.50U	UJ	
1,1-Dichloroethane	0.43J	J		0.49J	J		0.50U	U		0.50U	U		14	J		0.50U	UJ	
cis-1,2-Dichloroethene	0.86			0.90			0.50U	U		0.50U	U		13	J		0.50U	UJ	
2-Butanone	5.0U	U		5.0U	UJ													
Bromochloromethane	0.50U	U		0.50U	UJ													
Chloroform	21E	J		23E	J		0.50U	U		0.50U	U		27E	J		4.1	J	
1,1,1-Trichloroethane	0.50U	U		9100E	J		0.50U	UJ										
Cyclohexane	0.50U	U		0.50U	R		0.50U	U										
Carbon tetrachloride	0.50U	U		0.50U	R		0.50U	UJ										
Benzene	0.50U	U		21E	J		0.50U	U										
1,2-Dichloroethane	1.9			1.8			0.50U	U		0.50U	U		0.50U	U		0.67	J	
Trichloroethene	55E	J		62E	J		0.50U	U		0.50U	U		11000E	J		8.9		
Methylcyclohexane	0.50U	U		0.50U	R		0.50U	U										

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	16			17			19			20			21			22		
Sample ID :	Y4N71		Y4N72		Y4N74		Y4N75		Y4N76		Y4N77		Y4N77		Y4N77			
Collection Date :	3/5/2009		3/5/2009		3/5/2009		3/5/2009		3/5/2009		3/5/2009		3/5/2009		3/5/2009			
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,2-Dichloropropane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	R		0.50U	U	
Bromodichloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	R		0.50U	U	
cis-1,3-Dichloropropene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	R		0.50U	U	
4-Methyl-2-pentanone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U	R		5.0U	U	
Toluene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		38E	J		0.50U	U	
trans-1,3-Dichloropropene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	R		0.50U	U	
1,1,2-Trichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	R		0.50U	U	
Tetrachloroethene	210E	J		260E	J		1.6			4.2			79000E	J		130E	J	
2-Hexanone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U	R		5.0U	U	
Dibromochloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	R		0.50U	U	
1,2-Dibromoethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	R		0.50U	UJ	
Chlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.7	J		0.50U	U	
Ethylbenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		1.5	J		0.50U	U	
o-Xylene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		1.2	J		0.50U	U	
m,p-Xylene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		1.1	J		0.50U	U	
Styrene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	R		0.50U	U	
Bromoform	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U	
Isopropylbenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		2.3	J		0.50U	U	
1,1,2,2-Tetrachloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	R		0.50U	U	
1,3-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.52	J		0.50U	U	
1,4-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		1.4	J		0.50U	U	
1,2-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		11	J		0.50U	U	
1,2-Dibromo-3-chloropropane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U	
1,2,4-Trichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U	
1,2,3-Trichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U	
Vinyl chloride-d3	6.5			7.0			6.3			6.0			9.5			4.2		

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	16			17			19			20			21			22		
Sample ID :	Y4N71		Y4N72		Y4N74		Y4N75		Y4N76		Y4N77		Y4N78		Y4N79			
Collection Date :	3/5/2009		3/5/2009		3/5/2009		3/5/2009		3/5/2009		3/5/2009		3/5/2009		3/5/2009			
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chloroethane-d5	4.6			4.9			4.4			4.3			7.2			3.2		
1,1-Dichloroethene-d2	4.9			4.4			6.2			6.3			9.7			3.3		
2-Butanone-d5	38			40			59			55			59			36		
Chloroform-d	5.5			6.0			5.2			5.1			8.7			4.1		
1,2-Dichloroethane-d4	4.5			5.1			5.5			5.6			5.0			3.6		
Benzene-d6	6.0			6.0			5.3			5.2			48			5.9		
1,2-Dichloropropane-d6	5.1			5.6			5.2			5.3			30			4.9		
Toluene-d8	5.8			5.8			4.9			4.8			53			5.8		
trans-1,3-Dichloropropene-d4	5.3			5.4			5.6			5.5			62			4.5		
2-Hexanone-d5	36			35			52			49			230			38		
1,1,2,2-Tetrachloroethane-d2	4.5			4.6			4.8			4.8			2.8			3.8		
1,2-Dichlorobenzene-d4	5.1			5.2			4.4			4.1			5.9			4.9		

Percent Solids

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location	23	24	25	26	27	28												
Sample ID	Y4N78	Y4N79	Y4N80	Y4N81	Y4N82	Y4N83												
Collection Date	3/5/2009	3/5/2009	3/6/2009	3/6/2009	3/6/2009	3/6/2009												
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0												
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	0.50U	UJ		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U	
Chloromethane	0.50U	UJ		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U	
Vinyl chloride	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U	
Bromomethane	0.50U	UJ		0.50U	UJ		0.50U	UJ		0.50U	U		0.50U	UJ		0.50U	U	
Chloroethane	0.50U	UJ		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U	
Trichlorofluoromethane	6.8			0.50U	U		0.50U	U		0.50U	U		0.50U	U			17	
1,1-Dichloroethene	12	J		0.50U	U		0.61	J		0.50U	U		0.50U	U			30E	J
1,1,2-Trichloro-1,2,2-trifluoroethane	16			0.50U	U		0.50U	U		0.50U	U		0.50U	U			38E	J
Acetone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U	U			5.0U	U
Carbon disulfide	0.50U	UJ		0.50U	U		0.50U	U		0.50U	U		0.50U	U			0.50U	U
Methyl acetate	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U			0.50U	U
Methylene chloride	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U			0.50U	U
trans-1,2-Dichloroethene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U			0.50U	U
Methyl tert-butyl ether	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U			0.50U	U
1,1-Dichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U			0.22J	J
cis-1,2-Dichloroethene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U			19	J
2-Butanone	5.0	U		5.0U	U		5.0U	U		5.0U	U		5.0U	U			5.0U	U
Bromochloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U			0.50U	U
Chloroform	1.3			0.40J	J		0.50U	U		0.50U	U		0.50U	U			4.6	
1,1,1-Trichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U			0.50U	U
Cyclohexane	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U			0.50U	U
Carbon tetrachloride	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U			0.50U	U
Benzene	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U			0.50U	U
1,2-Dichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U			0.50U	U
Trichloroethene	3.9			0.50U	U		0.92			120E	J		0.50U	U			110E	J
Methylcyclohexane	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U			0.50U	U

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location	23	24	25	26	27	28												
Sample ID	Y4N78	Y4N79	Y4N80	Y4N81	Y4N82	Y4N83												
Collection Date	3/5/2009	3/5/2009	3/6/2009	3/6/2009	3/6/2009	3/6/2009												
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0												
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,2-Dichloropropane	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
Bromodichloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
cis-1,3-Dichloropropene	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
4-Methyl-2-pentanone	5.0U	U		5.0U	U		5.0U	U		5.0U	UJ		5.0U	U		5.0U	U	
Toluene	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
trans-1,3-Dichloropropene	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
1,1,2-Trichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
Tetrachloroethene	11			0.50U	U		3.9			1800E	J		0.69			53E	J	
2-Hexanone	5.0U	U		5.0U	U		5.0U	U		5.0U	UJ		5.0U	U		5.0U	U	
Dibromochloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
1,2-Dibromoethane	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
Chlorobenzene	0.50U	UJ		0.50U	U		0.50U	U		0.50U	UJ		0.50U	UJ		0.50U	U	
Ethylbenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
o-Xylene	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
m,p-Xylene	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
Styrene	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
Bromoform	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U	
Isopropylbenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
1,1,2,2-Tetrachloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U		0.50U	U	
1,3-Dichlorobenzene	0.50U	UJ		0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U	
1,4-Dichlorobenzene	0.50U	UJ		0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U	
1,2-Dichlorobenzene	0.50U	UJ		0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U	
1,2-Dibromo-3-chloropropane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U	
1,2,4-Trichlorobenzene	0.50U	UJ		0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U	
1,2,3-Trichlorobenzene	0.50U	UJ		0.50U	U		0.50U	U		0.50U	U		0.50U	UJ		0.50U	U	
Vinyl chloride-d3	5.9			5.9			6.0			6.5			5.9			6.9		

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	23	24	25	26	27	28										
Sample ID :	Y4N78	Y4N79	Y4N80	Y4N81	Y4N82	Y4N83										
Collection Date :	3/5/2009	3/5/2009	3/6/2009	3/6/2009	3/6/2009	3/6/2009										
Dilution Factor :	1.0	1.0	1.0	1.0	1.0	1.0										
Trace Volatiles																
	Result	Val	Com													
Chloroethane-d5	1.6			4.2			4.2			4.7			4.2			4.9
1,1-Dichloroethene-d2	6.4			6.5			6.4			5.6			6.2			5.4
2-Butanone-d5	55			56			54			36			53			41
Chloroform-d	5.1			4.9			5.0			4.5			4.9			5.0
1,2-Dichloroethane-d4	5.4			5.4			5.3			4.6			5.5			4.8
Benzene-d6	4.9			5.1			5.1			13			4.9			5.5
1,2-Dichloropropane-d6	4.8			5.0			5.1			12			4.9			4.6
Toluene-d8	4.6			4.8			4.7			13			4.7			5.2
trans-1,3-Dichloropropene-d4	4.9			5.3			4.9			11			5.2			4.9
2-Hexanone-d5	49			49			47			24			48			44
1,1,2,2-Tetrachloroethane-d2	4.2			4.6			4.3			9.0			4.4			4.7
1,2-Dichlorobenzene-d4	3.9			4.0			4.1			4.9			3.9			4.8

Percent Solids

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location	29	30			31			32			33			34		
Sample ID	Y4N84	Y4N85			Y4N86			Y4N87			Y4N88			Y4N89		
Collection Date	3/6/2009	3/9/2009			3/9/2009			3/9/2009			3/9/2009			3/9/2009		
Dilution Factor	1.0	1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result
Dichlorodifluoromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Chloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Vinyl chloride	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Bromomethane	0.50U	UJ		0.50U	UJ		0.50U	UJ		0.50U	UJ		0.50U	UJ		0.50U
Chloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Trichlorofluoromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,1-Dichloroethene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Acetone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U
Carbon disulfide	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Methyl acetate	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Methylene chloride	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
trans-1,2-Dichloroethene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Methyl tert-butyl ether	0.50U	U		1.1			1.1			0.50U	U		0.50U	U		0.50U
1,1-Dichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
cis-1,2-Dichloroethene	0.50U	U		0.22J	J		0.50U	U		0.50U	U		0.50U	U		0.50U
2-Butanone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U
Bromochloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Chloroform	0.41J	J		0.50U	U		0.50U									
1,1,1-Trichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Cyclohexane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Carbon tetrachloride	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Benzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,2-Dichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Trichloroethene	0.50U	U		0.50U	U		0.50U	U		1.1			0.56			0.50U
Methylcyclohexane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location	29	30			31			32			33			34		
Sample ID	Y4N84	Y4N85			Y4N86			Y4N87			Y4N88			Y4N89		
Collection Date	3/6/2009	3/9/2009			3/9/2009			3/9/2009			3/9/2009			3/9/2009		
Dilution Factor	1.0	1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result
1,2-Dichloropropane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Bromodichloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
cis-1,3-Dichloropropene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
4-Methyl-2-pentanone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U
Toluene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
trans-1,3-Dichloropropene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,1,2-Trichloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Tetrachloroethene	0.50U	U		0.50U	U		0.50U	U		0.21J	J		0.50U	U		0.50U
2-Hexanone	5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U	U		5.0U
Dibromochloromethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,2-Dibromoethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Chlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Ethylbenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
o-Xylene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
m,p-Xylene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Styrene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Bromoform	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Isopropylbenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,1,2,2-Tetrachloroethane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,3-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,4-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,2-Dichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,2-Dibromo-3-chloropropane	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,2,4-Trichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
1,2,3-Trichlorobenzene	0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U	U		0.50U
Vinyl chloride-d3	6.3			5.6			5.6			5.9			5.8			6.6

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	29	30	31	32	33	34												
Sample ID :	Y4N84	Y4N85	Y4N86	Y4N87	Y4N88	Y4N89												
Collection Date :	3/6/2009	3/9/2009	3/9/2009	3/9/2009	3/9/2009	3/9/2009												
Dilution Factor :	1.0	1.0	1.0	1.0	1.0	1.0												
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chloroethane-d5	4.4			4.1			4.3			4.2			4.3			4.7		
1,1-Dichloroethene-d2	6.7			6.8			7.0			7.0			6.9			6.9		
2-Butanone-d5	55			45			45			44			44			52		
Chloroform-d	5.1			5.1			5.1			5.1			5.2			5.2		
1,2-Dichloroethane-d4	5.6			5.9			5.5			5.5			5.6			5.4		
Benzene-d6	5.2			5.3			5.2			5.3			5.3			5.0		
1,2-Dichloropropane-d6	5.3			5.5			5.1			5.4			5.2			5.2		
Toluene-d8	4.7			5.0			5.0			4.9			4.9			4.8		
trans-1,3-Dichloropropene-d4	5.1			5.4			5.2			5.0			5.1			4.9		
2-Hexanone-d5	51			41			36			42			38			43		
1,1,2,2-Tetrachloroethane-d2	4.0			4.3			4.4			4.1			4.2			4.3		
1,2-Dichlorobenzene-d4	4.0			4.1			4.4			4.3			4.0			3.9		

Percent Solids

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	35	Sample ID :	Y4N90	Collection Date :	3/9/2009	Dilution Factor :	1.0	36	Y4N91	3/9/2009	1.0	20.0	Y4N71DL	20.0	Y4N72DL	4000.0	Y4N76DL	2.5	Y4N77DL
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	
Dichlorodifluoromethane	0.50U	U		0.50U	U		10U	UJ		10U	U		2000U	U		1.3U	U		
Chloromethane	0.50U	U		0.50U	U		10U	UJ		10U	U		2000U	U		1.3U	U		
Vinyl chloride	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Bromomethane	0.50U	UJ		0.50U	UJ		10U	UJ		10U	UJ		2000U	UJ		1.3U	UJ		
Chloroethane	0.50U	U		0.50U	U		10U	UJ		10U	U		2000U	U		1.3U	U		
Trichlorofluoromethane	0.50U	U		0.50U	U		77D			78D			2000U	U		16D			
1,1-Dichloroethene	0.50U	U		0.50U	U		150D	J		150D	J		2000U	U		33D	J		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U	U		0.50U	U		170D			170D			2000U	U		39D			
Acetone	5.0U	U		5.0U	U		100U	U		100U	U		20000U	U		13U	U		
Carbon disulfide	0.50U	U		0.50U	U		10U	UJ		10U	U		2000U	U		1.3U	U		
Methyl acetate	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Methylene chloride	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
trans-1,2-Dichloroethene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Methyl tert-butyl ether	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
1,1-Dichloroethane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
cis-1,2-Dichloroethene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
2-Butanone	5.0U	U		5.0U	U		100U	U		100U	U		20000U	U		13U	U		
Bromochloromethane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Chloroform	0.50U	U		0.50U	U		24D			24D			2000U	U		5.9D			
1,1,1-Trichloroethane	0.50U	U		0.50U	U		10U	U		10U	U		820DJ	J		1.3U	U		
Cyclohexane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Carbon tetrachloride	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Benzene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
1,2-Dichloroethane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Trichloroethene	0.44J	J		0.50U	U		44D			44D			2000U	U		8.6D			
Methylcyclohexane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

Page 11 of 18

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	35	Sample ID :	Y4N90	Collection Date :	3/9/2009	Dilution Factor :	1.0	36	Y4N91	3/9/2009	1.0	20.0	Y4N71DL	20.0	Y4N72DL	4000.0	Y4N76DL	2.5	Y4N77DL
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	
1,2-Dichloropropane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Bromodichloromethane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
cis-1,3-Dichloropropene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
4-Methyl-2-pentanone	5.0U	U		5.0U	U		100U	U		100U	U		20000U	U		13U	U		
Toluene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
trans-1,3-Dichloropropene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
1,1,2-Trichloroethane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Tetrachloroethene	1.8			0.50U	U		120D			120D			49000D			42D			
2-Hexanone	5.0U	U		5.0U	U		100U	U		100U	U		20000U	U		13U	U		
Dibromochloromethane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
1,2-Dibromoethane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Chlorobenzene	0.50U	UJ		0.50U	UJ		10U	U		10U	U		2000U	UJ		1.3U	U		
Ethylbenzene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
o-Xylene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
m,p-Xylene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Styrene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Bromoform	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
Isopropylbenzene	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
1,1,2,2-Tetrachloroethane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
1,3-Dichlorobenzene	0.50U	UJ		0.50U	UJ		10U	U		10U	U		2000U	UJ		1.3U	U		
1,4-Dichlorobenzene	0.50U	UJ		0.50U	UJ		10U	U		10U	U		2000U	UJ		1.3U	U		
1,2-Dichlorobenzene	0.50U	UJ		0.50U	UJ		10U	U		10U	U		2000U	UJ		1.3U	U		
1,2-Dibromo-3-chloropropane	0.50U	U		0.50U	U		10U	U		10U	U		2000U	U		1.3U	U		
1,2,4-Trichlorobenzene	0.50U	UJ		0.50U	UJ		10U	U		10U	U		2000U	UJ		1.3U	U		
1,2,3-Trichlorobenzene	0.50U	UJ		0.50U	UJ		10U	U		10U	U		2000U	UJ		1.3U	U		
Vinyl chloride-d3	6.5			6.5			6.0			5.9			6.1			5.5			

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	35	Sample ID :	Y4N90	Collection Date :	3/9/2009	Dilution Factor :	1.0	36	Y4N91	3/9/2009	1.0	Y4N71DL	20.0	Y4N72DL	20.0	Y4N76DL	4000.0	Y4N77DL	2.5
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	
Chloroethane-d5	4.7			4.6			4.3			1.7			4.4			4.0			
1,1-Dichloroethene-d2	6.9			6.7			6.6			6.5			6.6			6.1			
2-Butanone-d5	51			49			56			59			57			54			
Chloroform-d	4.9			5.1			5.2			5.3			5.1			4.9			
1,2-Dichloroethane-d4	5.6			5.4			5.4			5.5			5.7			5.5			
Benzene-d6	5.2			5.1			5.1			5.1			5.1			5.0			
1,2-Dichloropropane-d6	5.2			5.1			5.0			5.3			5.1			5.0			
Toluene-d8	4.9			4.9			4.8			4.9			4.8			4.7			
trans-1,3-Dichloropropene-d4	5.3			5.0			5.3			5.4			5.5			5.4			
2-Hexanone-d5	43			45			50			52			52			49			
1,1,2,2-Tetrachloroethane-d2	4.2			4.2			4.6			4.4			4.5			4.3			
1,2-Dichlorobenzene-d4	3.7			3.8			4.2			4.2			4.0			4.0			

Percent Solids

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	Y4N81DL			Y4N83DL			Method Blank VBLK5V			Method Blank VBLKC5			Method Blank VBLKD5			Method Blank VBLKG5		
Sample ID :							1.0			1.0			1.0			1.0		
Collection Date :	40.0			10.0														
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	20U	U		5.00	U		0.50U	U										
Chloromethane	20U	U		5.00	U		0.50U	U										
Vinyl chloride	20U	U		5.00	U		0.50U	U										
Bromomethane	20U	U		5.00	UJ		0.50U	U		0.50U	UJ		0.50U	UJ		0.50U	U	
Chloroethane	20U	U		5.00	U		0.50U	U										
Trichlorofluoromethane	20U	U		15D			0.50U	U										
1,1-Dichloroethene	20U	U		26D	J		0.50U	U										
1,1,2-Trichloro-1,2,2-trifluoroethane	20U	U		32D			0.50U	U										
Acetone	200U	U		500	U		5.0U	U										
Carbon disulfide	20U	U		5.00	U		0.50U	U										
Methyl acetate	20U	U		5.00	U		0.50U	U										
Methylene chloride	20U	U		5.00	U		0.31J	J		0.21J	J		0.31J	J		0.50U	U	
trans-1,2-Dichloroethene	20U	U		5.00	U		0.50U	U										
Methyl tert-butyl ether	20U	U		5.00	U		0.50U	U										
1,1-Dichloroethane	20U	U		5.00	U		0.50U	U										
cis-1,2-Dichloroethene	20U	U		13D			0.50U	U										
2-Butanone	200U	U		500	U		5.0U	U										
Bromochloromethane	20U	U		5.00	U		0.50U	U										
Chloroform	20U	U		4.3DJ	J		0.50U	U										
1,1,1-Trichloroethane	20U	U		5.00	U		0.50U	U										
Cyclohexane	20U	U		5.00	U		0.50U	U										
Carbon tetrachloride	20U	U		5.00	U		0.50U	U										
Benzene	20U	U		5.00	U		0.50U	U										
1,2-Dichloroethane	20U	U		5.00	U		0.50U	U										
Trichloroethene	47D			80D			0.50U	U										
Methylcyclohexane	20U	U		5.00	U		0.50U	U										

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	Y4N81DL			Y4N83DL			Method Blank VBLK5V			Method Blank VBLKC5			Method Blank VBLKD5			Method Blank VBLKG5		
Sample ID :							1.0			1.0			1.0			1.0		
Collection Date :	40.0			10.0														
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,2-Dichloropropane	20U	U		5.00	U		0.50U	U										
Bromodichloromethane	20U	U		5.00	U		0.50U	U										
cis-1,3-Dichloropropene	20U	U		5.00	U		0.50U	U										
4-Methyl-2-pentanone	200U	U		500	U		5.0U	U										
Toluene	20U	U		5.00	U		0.50U	U										
trans-1,3-Dichloropropene	20U	U		5.00	U		0.50U	U										
1,1,2-Trichloroethane	20U	U		5.00	U		0.50U	U										
Tetrachloroethene	540D			25D			0.50U	U										
2-Hexanone	200U	U		500	U		5.0U	U										
Dibromochloromethane	20U	U		5.00	U		0.50U	U										
1,2-Dibromoethane	20U	U		5.00	U		0.50U	U										
Chlorobenzene	20U	U		5.00	UJ		0.50U	U										
Ethylbenzene	20U	U		5.00	U		0.50U	U										
o-Xylene	20U	U		5.00	U		0.50U	U										
m,p-Xylene	20U	U		5.00	U		0.50U	U										
Styrene	20U	U		5.00	U		0.50U	U										
Bromoform	20U	U		5.00	U		0.50U	U										
Isopropylbenzene	20U	U		5.00	U		0.50U	U										
1,1,2,2-Tetrachloroethane	20U	U		5.00	U		0.50U	U										
1,3-Dichlorobenzene	20U	U		5.00	UJ		0.50U	U										
1,4-Dichlorobenzene	20U	U		5.00	UJ		0.50U	U										
1,2-Dichlorobenzene	20U	U		5.00	UJ		0.50U	U										
1,2-Dibromo-3-chloropropane	20U	U		5.00	U		0.50U	U										
1,2,4-Trichlorobenzene	20U	U		5.00	UJ		0.50U	U										
1,2,3-Trichlorobenzene	20U	U		5.00	UJ		0.50U	U										
Vinyl chloride-d3	4.5			6.0			4.3			5.4			5.3			5.3		

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	Y4N81DL			Y4N83DL			Method Blank VBLK5V			Method Blank VBLKC5			Method Blank VBLKD5			Method Blank VBLKG5		
Sample ID :							1.0			1.0			1.0			1.0		
Collection Date :	40.0			10.0														
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chloroethane-d5	4.6			4.4			5.1			5.9			6.1			5.3		
1,1-Dichloroethene-d2	3.0			6.3			4.8			5.0			5.0			3.0		
2-Butanone-d5	48			53			44			50			57			49		
Chloroform-d	4.4			5.1			4.8			4.8			5.1			4.9		
1,2-Dichloroethane-d4	4.5			5.6			4.8			5.1			5.7			5.0		
Benzene-d6	4.9			5.0			5.2			5.1			4.9			5.5		
1,2-Dichloropropane-d6	5.0			4.8			4.9			5.4			5.2			5.6		
Toluene-d8	4.7			4.6			5.1			4.8			5.0			5.3		
trans-1,3-Dichloropropene-d4	5.0			5.0			4.8			4.7			5.7			5.6		
2-Hexanone-d5	51			49			52			46			52			51		
1,1,2,2-Tetrachloroethane-d2	4.5			4.2			4.2			4.5			4.9			5.2		
1,2-Dichlorobenzene-d4	4.7			3.9			5.3			4.3			4.5			4.9		

Percent Solids

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

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QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	Method Blank			CRQL														
Sample ID :	VHBLKG5																	
Collection Date :																		
Dilution Factor :	1.0																	
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	0.50U	U		0.50														
Chloromethane	0.50U	U		0.50														
Vinyl chloride	0.50U	U		0.50														
Bromomethane	0.50U	U		0.50														
Chloroethane	0.50U	U		0.50														
Trichlorofluoromethane	0.50U	U		0.50														
1,1-Dichloroethene	0.50U	U		0.50														
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U	U		0.50														
Acetone	5.0U	U		5.0														
Carbon disulfide	0.50U	U		0.50														
Methyl acetate	0.50U	U		0.50														
Methylene chloride	0.22J	J		0.50														
trans-1,2-Dichloroethene	0.50U	U		0.50														
Methyl tert-butyl ether	0.50U	U		0.50														
1,1-Dichloroethane	0.50U	U		0.50														
cis-1,2-Dichloroethene	0.50U	U		0.50														
2-Butanone	5.0U	U		5.0														
Bromochloromethane	0.50U	U		0.50														
Chloroform	0.50U	U		0.50														
1,1,1-Trichloroethane	0.50U	U		0.50														
Cyclohexane	0.50U	U		0.50														
Carbon tetrachloride	0.50U	U		0.50														
Benzene	0.50U	U		0.50														
1,2-Dichloroethane	0.50U	U		0.50														
Trichloroethene	0.50U	U		0.50														
Methylcyclohexane	0.50U	U		0.50														

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

SDG No. : Y4N71

Site : OMEGA CHEMICAL OU2

Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

Date : 05/11/09

ANALYTICAL RESULTS

Amended Table 1A

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QUALIFIED DATA

Concentration in ug/L

Analysis Type :

Trace Level Water Samples
for Trace Volatiles

Station Location :	Method Blank			CRQL														
Sample ID :	VHBLKG5																	
Collection Date :																		
Dilution Factor :	1.0																	
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
1,2-Dichloropropane	0.50U	U		0.50														
Bromodichloromethane	0.50U	U		0.50														
cis-1,3-Dichloropropene	0.50U	U		0.50														
4-Methyl-2-pentanone	5.0U	U		5.0														
Toluene	0.50U	U		0.50														
trans-1,3-Dichloropropene	0.50U	U		0.50														
1,1,2-Trichloroethane	0.50U	U		0.50														
Tetrachloroethene	0.50U	U		0.50														
2-Hexanone	5.0U	U		5.0														
Dibromochloromethane	0.50U	U		0.50														
1,2-Dibromoethane	0.50U	U		0.50														
Chlorobenzene	0.50U	U		0.50														
Ethylbenzene	0.50U	U		0.50														
o-Xylene	0.50U	U		0.50														
m,p-Xylene	0.50U	U		0.50														
Styrene	0.50U	U		0.50														
Bromoform	0.50U	U		0.50														
Isopropylbenzene	0.50U	U		0.50														
1,1,2,2-Tetrachloroethane	0.50U	U		0.50														
1,3-Dichlorobenzene	0.50U	U		0.50														
1,4-Dichlorobenzene	0.50U	U		0.50														
1,2-Dichlorobenzene	0.50U	U		0.50														
1,2-Dibromo-3-chloropropane	0.50U	U		0.50														
1,2,4-Trichlorobenzene	0.50U	U		0.50														
1,2,3-Trichlorobenzene	0.50U	U		0.50														
Vinyl chloride-d3	6.5			NA														

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).

Case No. : 38274

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Lab : MITKEM LABORATORIES

Reviewer : Santiago Lee, ESAT/LDC

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ANALYTICAL RESULTS
Amended Table 1A

QUALIFIED DATA
Concentration in ug/L

Analysis Type :Trace Level Water Samples
for Trace Volatiles

Station Location :	Method Blank			CRQL														
Sample ID :	VHBLKG5																	
Collection Date :																		
Dilution Factor :	1.0																	
Trace Volatiles	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chloroethane-d5	6.4				NA													
1,1-Dichloroethene-d2	3.8				NA													
2-Butanone-d5	55				NA													
Chloroform-d	5.5				NA													
1,2-Dichloroethane-d4	5.6				NA													
Benzene-d6	6.1				NA													
1,2-Dichloropropane-d6	6.0				NA													
Toluene-d8	5.8				NA													
trans-1,3-Dichloropropene-d4	5.8				NA													
2-Hexanone-d5	55				NA													
1,1,2,2-Tetrachloroethane-d2	5.2				NA													
1,2-Dichlorobenzene-d4	5.6				NA													

Percent Solids

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

Data with qualifiers changed or added are bolded (based on Tier 1A forms reviewed by ESAT).